

NODE=B193

 **$\Omega_b(6319)^-$** 

$I(J^P) = ?(??)$  Status: \*

$I, J, P$  need confirmation.

OMITTED FROM SUMMARY TABLE

 **$\Omega_b(6319)^-$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>6315.6±0.3±0.5</b>	<sup>1</sup> AAIJ	20T LHCb	$p p$ at 7, 8, 13 TeV
<sup>1</sup> AAIJ 20T measures $m(\Omega_b(6316)^-) - m(\Xi_b^0) = 523.74 \pm 0.31 \pm 0.07$ MeV. We have adjusted the measurement to our best values of $m(\Xi_b^0) = 5791.9 \pm 0.5$ MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.			

NODE=B193M

NODE=B193M

NODE=B193M;LINKAGE=B

 **$\Omega_b(6319)^-$  WIDTH**

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;4.2</b>	95	AAIJ	20T LHCb	$p p$ at 7, 8, 13 TeV

NODE=B193W

NODE=B193W

NODE=B193215;NODE=B193

 **$\Omega_b(6319)^-$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Xi_b^0 K^-$	seen

DESIG=1

NODE=B193220

NODE=B193R01  
NODE=B193R01

NODE=B193R01;LINKAGE=A

 **$\Omega_b(6319)^-$  BRANCHING RATIOS**

$\Gamma(\Xi_b^0 K^-)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$
<b>seen</b>	<sup>1</sup> AAIJ 20T LHCb $p p$ at 7, 8, 13 TeV
<sup>1</sup> AAIJ 20T establishes the decay at 2.1 $\sigma$ significance level.	

DESIG=1

NODE=B193220

NODE=B193R01  
NODE=B193R01

NODE=B193R01;LINKAGE=A

NODE=B193

REFID=60534

 **$\Omega_b(6319)^-$  REFERENCES**

AAIJ	20T PRL 124 082002	R. Aaij <i>et al.</i>	(LHCb Collab.)
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